



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 21-Nov-20

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.004249e+000
h = 1.375827e-001
i = -4.288833e-004
j = 5.222670e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.3041e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2709.57	0.00000	0.00000
1.0000	34.5889	2.95837	5382.36	2.95842	0.00005
4.5000	34.5695	3.26372	5585.33	3.26370	-0.00002
15.0000	34.5283	4.24000	6189.00	4.23993	-0.00007
18.5000	34.5199	4.58327	6387.41	4.58323	-0.00004
24.0000	34.5112	5.13823	6695.42	5.13829	0.00006
29.0000	34.5071	5.65735	6970.81	5.65747	0.00013
32.5000	34.5049	6.02780	7160.48	6.02770	-0.00010

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

